## WHAT IS CLAIMED IS:

1. A magnetically inert headset comprising:

an ear cup;

an outer set portion disposed in the ear cup, and adapted to cover an ear; an inner set portion disposed in the outer set portion, including an ear insert adapted to fit into an ear canal and having a through-hole; and

a pneumatic port disposed in the hole in the ear insert to couple audible sound waves to the ear canal.

- 2. The headset of claim 1 comprising a stethoscope-type yoke to couple the pneumatic port to a non-magnetic audio transducer.
- 3. The headset of claim 2 comprising an adapter coupled to the outer set portion and having a substantially conical opening to receive and to guide an end of the pneumatic port into the stethoscope-type yoke.
- 4. The headset of claim 2 wherein the non-magnetic audio transducer comprises a piezoelectric transducer.
- 5. The headset of claim 2 wherein the non-magnetic audio transducer comprises an electrostatic transducer.
- 6. The headset of claim 2 comprising a non-magnetic microphone coupled to the outer set portion.
- 7. The headset of claim 6 wherein the non-magnetic microphone comprises a fiber-optic microphone.
- 8. The headset of claim 6 wherein the non-magnetic microphone comprises a piezoelectric microphone.

- 9. The headset of claim 4 comprising a non-magnetic microphone coupled to the outer set portion.
- 10. The headset of claim 9 wherein the non-magnetic microphone comprises a fiber-optic microphone.
- 11. The headset of claim 9 wherein the non-magnetic microphone comprises a piezoelectric microphone.
- 12. The headset of claim 1 wherein the ear cup has a removable piece to provide access to the ear insert and pneumatic port.
- 13. The headset of claim 1 comprising a non-magnetic acoustic driver coupled to the pneumatic port.
- 14. The headset of claim 13 comprising a non-magnetic microphone.
- 15. The headset of claim 14 wherein the non-magnetic microphone comprises a fiber-optic microphone.
- 16. The headset of claim 14 wherein the non-magnetic microphone comprises a piezoelectric microphone.
- 17. The headset of claim 16 wherein the ear cup has a removable piece to provide access to the ear insert and pneumatic port.
- 18. The headset of claim 16 comprising a non-magnetic audio transducer coupled to the pneumatic port.
- 19. The headset of claim 18 wherein the non-magnetic audio transducer comprises a piezoelectric transducer.

20. The headset of claim 18 wherein the non-magnetic audio transducer comprises an electrostatic transducer.

21. A magnetically inert headset comprising:

an ear insert having a through-hole and adapted to fit into an ear canal;

a pneumatic port disposed in the hole in the ear insert to receive audible sound waves and couple the sound waves to the ear canal;

a non-magnetic microphone coupled to the headset; and

a stethoscope-type yoke acoustically coupled to the pneumatic port to couple the audible sound waves from a non-magnetic transducer.

- 22. The headset of claim 21 wherein the non-magnetic transducer comprises an audio transducer disposed in a magnet room of a magnetic resonance imaging system.
- 23. The headset of claim 21 wherein the non-magnetic transducer comprises a piezoelectric transducer.
- 24. The headset of claim 21 wherein the non-magnetic transducer comprises an electrostatic transducer.
- 25. A non-magnetic headset system comprising:

an audio transducer;

a non-magnetic headset including an ear insert having a through-hole and adapted to fit into an ear canal; and

a pneumatic port disposed in the hole in the ear insert to receive audible sound waves from the audio transducer.

26. The system of claim 25 wherein the audio transducer comprises a magnetically inert transducer.

27. The system of claim 26 wherein the magnetically inert transducer comprises a piezoelectric transducer.

- 28. The headset of claim 2 wherein the non-magnetic audio transducer comprises an electrostatic transducer.
- 29. A method comprising: inserting an ear insert having a through-hole into an ear canal of a user; disposing a pneumatic port into the hole in the ear insert; disposing the ear insert and the pneumatic port in an outer set portion; coupling the pneumatic port to a pneumatic tube; and coupling the pneumatic tube to an output of an audio transducer.
- 30. The method of claim 29 wherein the pneumatic port is coupled to the pneumatic tube through an adapter having a substantially conical opening on one end.
- 31. The method of claim 29 comprising disposing the ear insert and pneumatic port in an ear cup having sound absorbing foam.
- 32. The method of claim 29 comprising providing a non-magnetic microphone to enable communication between the user and another person.
- 33. The headset of claim 32 wherein the non-magnetic microphone comprises a fiber-optic microphone.
- 34. The headset of claim 32 wherein the non-magnetic microphone comprises a piezoelectric microphone.